

August 18, 2005  
ERI 261913.L28

Mr. John Mahoney  
Redwood Oil Company  
455 Yolanda Avenue  
Santa Rosa, California 95404

Subject: Laboratory Analysis Results of Groundwater Sample Collected from Private Water Well  
Located at 2050 Marlow Road, Santa Rosa, California.

Mr. Mahoney:

At the request of Redwood Oil Company (Redwood), Environmental Resolutions, Inc. (ERI) is providing the analytical laboratory results of the groundwater samples collected from the private water well located at 2050 Marlow Road, in Santa Rosa, California, on July 22, 2005 and August 5, 2005. The samples were collected by ERI and analyzed by a California state-certified laboratory, under Chain-of-Custody protocol, for methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol using Environmental Protection Agency (EPA) Method 8260B; and methanol using EPA Method 8015. Results of laboratory analysis of the water sample are summarized on the attached table. The July 22, 2005 sample results are not consistent with historical MTBE concentrations for this well and ERI has concluded that the samples were likely mislabeled in the field.

Please contact Mr. Glenn L. Matteucci, ERI's project manager for this site, at (707) 766-2000 with any questions.

Sincerely,  
Environmental Resolutions, Inc.

*Karen L. Navarro*  
**COPY**

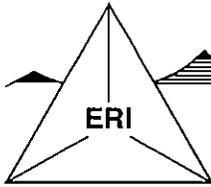
Karen L. Navarro  
Technical Writer

*Glenn L. Matteucci*  
**COPY**

Glenn L. Matteucci  
Project Manager

Attachment: Private Water Well Sampling Data  
Laboratory Analysis Reports and Chain-of-Custody Records

cc: Mr. and Mrs. Callison  
Ms. Joan Fleck, California Regional Water Quality Control Board, North Coast Region



**ENVIRONMENTAL RESOLUTIONS, INC.**

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August 18, 2005  
ERI 261913.L28

Mr. John Mahoney  
Redwood Oil Company  
455 Yolanda Avenue  
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Subject: Laboratory Analysis Results of Groundwater Sample Collected from Private Water Well  
Located at 2050 Marlow Road, Santa Rosa, California.

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Please contact Mr. Glenn L. Matteucci, ERI's project manager for this site, at (707) 766-2000 with any questions.

Sincerely,  
Environmental Resolutions, Inc.

*Karen Kvarro*  
**SCANNED**  
Karen Kvarro  
Technical Writer  
*Glenn L. Matteucci*  
**IMAGE**

Glenn L. Matteucci  
Project Manager

Attachment: Private Water Well Sampling Data  
Laboratory Analysis Reports and Chain-of-Custody Records

cc: Mr. and Mrs. Callison  
Ms. Joan Fleck, California Regional Water Quality Control Board, North Coast Region

**TABLE 1A**  
**CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**  
 Redwood Oil Company Facility 114  
 1855 Guerneville Road  
 Santa Rosa, California  
 (Page 1 of 1)

Well ID # (TOC)	Sample Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE	B	T	E	X	
											-----> ug/L <-----
DW2050	04/21/99	---	---	<50	<50	5	0.5	0.5	0.5	0.5	0.5
	08/11/99	---	---	<50	<50	0.5	0.5	0.5	0.5	0.5	0.5
	10/28/99	---	---	<50	<50	0.5	0.5	0.5	0.5	0.5	0.5
	02/04/00	---	---	<50	<50	0.5	0.5	0.5	0.5	0.5	0.5
	05/01/00	---	---	<50	<50	2	0.5	0.5	0.5	0.5	0.5
	07/25/00	---	---	<50	<50	2	0.5	0.5	0.5	0.5	0.5
	10/26/00	---	---	<50	<50	0.5	0.5	0.5	0.5	0.5	0.5
	01/17/01	---	---	<50	<50	5	0.5	0.5	0.5	0.5	0.5
	04/24/01	---	---	<50	<50	5	0.5	0.5	0.5	0.5	0.5
	07/31/01	---	---	<50	<50	5	0.5	0.5	0.5	0.5	0.5
	12/05/01	---	---	<50	<50	<5	0.5	0.5	0.5	0.5	0.5
	01/31/02	---	---	<50	<50	<5	0.5	0.5	0.5	0.5	0.5
	04/17/02	---	---	<50	<50	2	<1	<1	<1	<1	<1
	05/24/02	---	---	<50	<50	<5	0.5	0.5	0.5	0.5	<1
	07/10/02	---	---	<50	<50	4	<1	<1	<1	<1	<1
	08/07/02	---	---	<50	<50	<5	0.5	0.5	0.5	0.5	<1
	10/10/02	---	---	<50	<50	5.7	0.5	0.5	0.5	0.5	<1
	01/13/03	---	---	<50	<50	4.4	0.5	0.5	0.5	0.5	<1
	04/16/03	---	---	<50	<50	4	<1	<1	<1	<1	<1
	07/16/03	---	---	<50	<50	9	<1	<1	<1	<1	<1
	10/21/03	---	---	<50	<50	11	<1	<1	<1	<1	<1
	04/06/04	---	---	<50	<50	6.4	0.5	0.5	0.5	0.5	<1
	12/31/04	---	---	<50	<50	27	<0.5	<0.5	<0.5	<0.5	<0.5
	01/31/05	---	---	---	---	22	---	---	---	---	---
	02/25/05	---	---	---	---	19	---	---	---	---	---
	03/30/05	---	---	---	---	15	---	---	---	---	---
	04/22/05	---	---	---	---	20	---	---	---	---	---
	05/20/05	---	---	---	---	7.6	---	---	---	---	---
	06/17/05	---	---	---	---	16	---	---	---	---	---
	07/22/05a	---	---	---	---	<1.0	---	---	---	---	---
	08/05/05	---	---	---	---	20	---	---	---	---	---

**Notes:**

Data collected prior to April, 2004 compiled from the ECM Group *Systems Operations Report* dated July 9, 2004.

- TOC = Top of well casing elevation; datum is mean sea level.
- DTW = Depth to water.
- GW Elev. = Groundwater elevation; datum is mean sea level.
- TPHd = Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015M.
- MTBE = Methyl tertiary butyl ether analyzed using EPA Method 8021B.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
- ETBE = Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
- TBA = Tertiary butyl alcohol analyzed using EPA Method 8260B.
- DIPE = Di-isopropyl ether analyzed using EPA Method 8260B.
- TAME = Tertiary amyl methyl ether analyzed using EPA Method 8260B.
- 1,2-DCA = 1,2-Dichloroethane analyzed using EPA Method 8260B.
- EDB = 1,2-Dibromoethane analyzed using EPA Method 8260B.
- Ethanol = Ethanol analyzed using EPA Method 8260B.
- Methanol = Methanol analyzed using EPA Method 8015.
- ug/L = Micrograms per liter.
- mg/L = Milligrams per liter.
- = Not measured/Not sampled/Not analyzed.
- < = Analytes not detected at or above the laboratory reporting limit.
- a = Results not consistent with historical trend; samples for DW1815, DW2050, and DW2075 likely mislabeled in field.

**TABLE 1B**  
**ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**  
 Redwood Oil Company Facility 114  
 1855 Guerneville Road  
 Santa Rosa, California  
 (Page 1 of 1)

Well ID #	Sample Date	ETBE	TBA	DIPE	TAME	ug/L			
						1,2-DCA	EDB	Ethanol	Methanol mg/L
DW2050	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	---
	01/31/05	22	<5	<10	<5	<5	<100	<0.5	---
	02/25/05	<5	<10	<5	<5	---	---	<100	---
	03/30/05	<5	<10	<5	<5	---	---	<100	<0.5
	04/22/05	<5	<10	<5	<5	---	---	<100	<0.5
	05/20/05	<5.0	<10.0	<5.0	<5.0	---	---	<100	<0.50
	06/17/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
	07/22/05a	<5.0	<10	<5.0	<5.0	---	---	<100	---
	08/05/05	<5.0	<10	<5.0	<5.0	---	---	<100	---

**Notes:**

Data collected prior to April, 2004 compiled from the ECM Group *Systems Operations Report* dated July 9, 2004.

- TOC = Top of well casing elevation; datum is mean sea level.
- DTW = Depth to water.
- GW Elev. = Groundwater elevation; datum is mean sea level.
- TPHd = Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015M.
- MTBE = Methyl tertiary butyl ether analyzed using EPA Method 8021B.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
- ETBE = Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
- TBA = Tertiary butyl alcohol analyzed using EPA Method 8260B.
- DIPE = Di-isopropyl ether analyzed using EPA Method 8260B.
- TAME = Tertiary amyl methyl ether analyzed using EPA Method 8260B.
- 1,2-DCA = 1,2-Dichloroethane analyzed using EPA Method 8260B.
- EDB = 1,2-Dibromoethane analyzed using EPA Method 8260B.
- Ethanol = Ethanol analyzed using EPA Method 8260B.
- Methanol = Methanol analyzed using EPA Method 8015.
- ug/L = Micrograms per liter.
- mg/L = Milligrams per liter.
- 
- < = Not measured/Not sampled/Not analyzed.
- < = Analytes not detected at or above the laboratory reporting limit.
- a = Results not consistent with historical trend; samples for DW1815, DW2050, and DW2075 likely mislabeled in field.

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Glenn Matteucci  
Environmental Resolutions, Inc.  
601 North McDowell Blvd.  
Petaluma, CA 94954

Certificate ID: 44533 - 8/2/2005 12:36:31 PM

Order Number: 44533  
Project Name: Redwood Oil #114  
Project Number: 2619

Date Received: 7/25/2005 12:16:36 PM  
P.O. Number: 2619

## Certificate of Analysis - Final Report

On July 25, 2005, sample was received under chain of custody for analysis.  
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	Electronic Deliverables EPA 8260B - GC/MS Methanol	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Resolutions, Inc.  
601 North McDowell Blvd.  
Petaluma, CA 94954  
Attn: Glenn Matteucci

Project ID: 2619  
Date Received: 7/25/2005  
P.O. Number: 2619  
Sample Collected by: Client

## Certificate of Analysis - Data Report

Lab # : 44533-001    Sample ID: 2050    Matrix: Liquid    Sample Date: 7/22/2005    11:06 AM

EPA 8015									Methanol
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	0.63		1	0.50	mg/L	N/A	N/A	7/26/2005	WGC5050726
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>						
1-Butanol	96.6		65	- 135				Analyzed by: mruan	Reviewed by: bdhabalia

EPA 5030B    EPA 8260B    EPA 624									8260Petroleum
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1	1.0	µg/L	N/A	N/A	7/26/2005	WM2050726
tert-Butyl Ethyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/26/2005	WM2050726
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	7/26/2005	WM2050726
Diisopropyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/26/2005	WM2050726
tert-Amyl Methyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/26/2005	WM2050726
Ethanol	ND		1	100	µg/L	N/A	N/A	7/26/2005	WM2050726
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>						
4-Bromofluorobenzene	110		70	- 125				Analyzed by: TAF	Reviewed by: bdhabalia
Dibromofluoromethane	110		70	- 125					
Toluene-d8	112		70	- 125					

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

8/2/2005 12:36:56 PM - dba

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050726

Validated by: bdhabalia - 07/28/05

QC Batch Analysis Date: 7/26/2005

Parameter	Result	DF	PQLR	Units
Diisopropyl Ether	ND	1	5.0	µg/L
Ethanol	ND	1	100	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	113	70 - 125
Dibromofluoromethane	111	70 - 125
Toluene-d8	111	70 - 125

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050726

Reviewed by: bdhabalia - 07/28/05

QC Batch ID Analysis Date: 7/26/2005

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	20.7	µg/L	103	70 - 130
Benzene	<0.50	20	21.1	µg/L	105	70 - 130
Chlorobenzene	<0.50	20	20.4	µg/L	102	70 - 130
Methyl-t-butyl Ether	<1.0	20	23.1	µg/L	116	70 - 130
Toluene	<0.50	20	20.8	µg/L	104	70 - 130
Trichloroethene	<0.50	20	21.4	µg/L	107	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	111	70 - 125
Dibromofluoromethane	113	70 - 125
Toluene-d8	109	70 - 125

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.3	µg/L	96.7	6.7	25.0	70 - 130
Benzene	<0.50	20	20.3	µg/L	102	3.6	25.0	70 - 130
Chlorobenzene	<0.50	20	19.5	µg/L	97.4	4.5	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	21.9	µg/L	109	5.5	25.0	70 - 130
Toluene	<0.50	20	19.8	µg/L	99.0	5.0	25.0	70 - 130
Trichloroethene	<0.50	20	20.3	µg/L	102	5.1	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	111	70 - 125
Dibromofluoromethane	109	70 - 125
Toluene-d8	110	70 - 125

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050726

Reviewed by: bdhabalia - 07/28/05

QC Batch ID Analysis Date: 7/26/2005

## MS

Sample Spiked: 44532-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Methyl-t-butyl Ether	1.09	20	24.3	µg/L	7/26/2005	116	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	112	70 - 125
Dibromofluoromethane	116	70 - 125
Toluene-d8	111	70 - 125

## MSD

Sample Spiked: 44532-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Methyl-t-butyl Ether	1.09	20	25.1	µg/L	7/26/2005	120	3.6	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	110	70 - 125
Dibromofluoromethane	113	70 - 125
Toluene-d8	111	70 - 125

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 - Methanol

QC Batch ID: WGC5050726

Reviewed by: bdhabalia - 08/02/05

QC Batch ID Analysis Date: 7/26/2005

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Methanol	<0.50	50	45.6	mg/L	91.2	65 - 135
Surrogate	% Recovery	Control Limits				
1-Butanol	88.8	65 - 135				

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Methanol	<0.50	50	46.1	mg/L	92.2	1.1	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
1-Butanol	89.2	65 - 135						

# Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200  
 Santa Clara, CA 95054 (408) 588-0201 - Fax

# Chain of Custody / Analysis Request

Attention to: <b>Glenn Matteucci</b>	Phone No.: <b>(707) 766-2030</b>	Purchase Order No.:	Invoice to: (If Different) <b>John Mahoney</b>	Phone:
Company Name: <b>Environmental Resolutions, Inc.</b>	Fax No.: <b>(707) 789-0414</b>	Project No.: <b>2619</b>	Company: <b>Redwood Oil</b>	Quote No.:
Mailing Address: <b>601 N. McDowell Blvd.</b>	Email Address: <b>mlinale@eri-us.com</b>	Project Name: <b>Redwood Oil #114</b>	Billing Address: (If Different) <b>455 Yolanda Ave.</b>	
City: <b>Petaluma</b>	State: <b>CA</b>	Zip Code: <b>94954</b>	Project Location: <b>1855 Guerneville Rd.</b>	City: <b>Santa Rosa</b>
			State: <b>CA</b>	Zip: <b>95404</b>

Sampler:	Field Org. Code:	Turn Around Time		Matrix	No. of Containers	GC/MS Methods		GC Methods		General Chemistry		Remarks																
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day			<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day	<input type="checkbox"/> 4 Day	<input type="checkbox"/> 5 Day	<input type="checkbox"/> 10 Day	EPA 8260B		BTEX	5 Oxygenates (MTBE, TBA, ETBA, DPE, TAME)	Lead Scavengers (LEDCA & EDB)	Base/Neutral/Acid Organics	TPH Extracetable: Diesel	Motor Oil	Other	PCBs - 8082	Methanol by 8015M	Ampors	F O C I	Bk	SO4	NO3	NO2	PO4
Global ID: T0609700601																												
Order ID:																												
Client ID / Field Point	Lab. No.	Date	Time																									
2050	44533-001	7-22-05	1106		5																							

Relinquished by: <i>Vicki Bunn</i>	Received by: <i>Spml. Frig.</i>	Date: 7-22-05	Time: 1300
Relinquished by: <i>Vicki Bunn</i>	Received by: <i>[Signature]</i>	Date: 7/25/05	Time: 0948
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 7/25/05	Time: 1210

**Special Instructions or Comments**

EDD Report  
 EDF Report  
 Plating  
 LUFT-5  
 RCRA-8  
 PPM-13  
 CAM-17

email EDF TO: [glacy@eri-us.com](mailto:glacy@eri-us.com)

Metals:  
 Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn,  
 Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Tl, Zn, V, W, Zr

June 2004

# Entech Analytical Labs, Inc.

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Glenn Matteucci  
Environmental Resolutions, Inc.  
601 North McDowell Blvd.  
Petaluma, CA 94954

Certificate ID: 44731 - 8/12/2005 1:46:40 PM

Order Number: 44731  
Project Name: Redwood Oil #114  
Project Number: 2619

Date Received: 8/8/2005 11:54:59 AM

## Certificate of Analysis - Final Report

On August 08, 2005, sample was received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EDF Methanol EPA 8260B EPA 624	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Resolutions, Inc.

601 North McDowell Blvd.

Petaluma, CA 94954

Attn: Glenn Matteucci

Project ID: 2619

Date Received: 8/8/2005

Sample Collected by: Client

## Certificate of Analysis - Data Report

Lab #: 44731-001

Sample ID: 2050

Matrix: Liquid

Sample Date: 8/5/2005

10:15 AM

EPA 8015									Methanol
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	2.1		1	0.50	mg/L	N/A	N/A	8/9/2005	WGC5050809
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: mruan	
1-Butanol	91.3		65 - 135					Reviewed by: BDhabalia	

EPA 5030C	EPA 8260B	EPA 624							8260Petroleum
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	20		1	1.0	µg/L	N/A	N/A	8/11/2005	WM2050811
tert-Butyl Ethyl Ether	ND		1	5.0	µg/L	N/A	N/A	8/11/2005	WM2050811
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	8/11/2005	WM2050811
Diisopropyl Ether	ND		1	5.0	µg/L	N/A	N/A	8/11/2005	WM2050811
tert-Amyl Methyl Ether	ND		1	5.0	µg/L	N/A	N/A	8/11/2005	WM2050811
Ethanol	ND		1	100	µg/L	N/A	N/A	8/11/2005	WM2050811
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	108		70 - 125					Reviewed by: bdhabalia	
Dibromofluoromethane	103		70 - 125						
Toluene-d8	115		70 - 125						

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

8/12/2005 1:46:47 PM - dba

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8015 - Methanol

QC Batch ID: WGC5050809

Validated by: BDhabalia - 08/10/05

QC Batch Analysis Date: 8/9/2005

Parameter	Result	DF	PQLR	Units
Methanol	ND	1	0.50	mg/L

Surrogate for Blank	% Recovery	Control Limits
1-Butanol	93.2	65 - 135

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 - Methanol

QC Batch ID: WGC5050809

Reviewed by: BDhabalia - 08/10/05

QC Batch ID Analysis Date: 8/9/2005

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Methanol	<0.50	50	47.1	mg/L	94.2	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	90.2	65 - 135

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Methanol	<0.50	50	47.1	mg/L	94.2	0.0	25.0	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	92.6	65 - 135

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8015 - Methanol

QC Batch ID: WGC5050809

Reviewed by: BDhabalia - 08/10/05

QC Batch ID Analysis Date: 8/9/2005

## MS

Sample Spiked: 44735-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Methanol	ND	50	46.3	mg/L	8/9/2005	92.6	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	91.6	65 - 135

## MSD

Sample Spiked: 44735-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Methanol	ND	50	47.9	mg/L	8/9/2005	95.8	3.4	25.0	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	90	65 - 135

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050811

Validated by: bdhabalia - 08/12/05

QC Batch Analysis Date: 8/11/2005

Parameter	Result	DF	PQLR	Units
Diisopropyl Ether	ND	1	5.0	µg/L
Ethanol	ND	1	100	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	108	70 - 125
Dibromofluoromethane	102	70 - 125
Toluene-d8	115	70 - 125

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2050811

Reviewed by: bdhabalia - 08/12/05

QC Batch ID Analysis Date: 8/11/2005

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	17.5	µg/L	87.4	70 - 130
Benzene	<0.50	20	20.0	µg/L	99.9	70 - 130
Chlorobenzene	<0.50	20	21.4	µg/L	107	70 - 130
Methyl-t-butyl Ether	<1.0	20	16.6	µg/L	83.2	70 - 130
Toluene	<0.50	20	20.9	µg/L	105	70 - 130
Trichloroethene	<0.50	20	21.3	µg/L	107	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	110	70 - 125
Dibromofluoromethane	100	70 - 125
Toluene-d8	112	70 - 125

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	17.8	µg/L	89.1	1.9	25.0	70 - 130
Benzene	<0.50	20	20.5	µg/L	102	2.5	25.0	70 - 130
Chlorobenzene	<0.50	20	21.9	µg/L	109	2.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.6	µg/L	93.0	11	25.0	70 - 130
Toluene	<0.50	20	21.3	µg/L	107	1.8	25.0	70 - 130
Trichloroethene	<0.50	20	21.7	µg/L	109	1.8	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	110	70 - 125
Dibromofluoromethane	102	70 - 125
Toluene-d8	112	70 - 125

# Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200  
 Santa Clara, CA 95054 (408) 588-0201 - Fax

# Chain of Custody / Analysis Request

Attention to: Glenn Matteucci ✓	Phone No.: (707) 766-2030 ✓	Purchase Order No.:	Invoice to: (if Different) John Mahoney ✓	Phone:
Company Name: Environmental Resolutions, Inc. ✓	Fax No.: (707) 789-0414 ✓	Project No.: 2619 ✓	Company: Redwood Oil ✓	Quote No.:
Mailing Address: 601 N. McDowell Blvd. ✓	Email Address: mlinale@eri-us.com ✓	Project Name: Redwood Oil #114 ✓	Billing Address: (if Different) 455 Yolanda Ave.	
City: Petaluma ✓	State: CA ✓	Zip Code: 94954 ✓	Project Location: 1855 Guerneville Rd.	City: Santa Rosa State: CA Zip: 95404

Sampler:	Field Org. Code:	Turn Around Time		Matrix	No. of Containers	GC/MS Methods		GC Methods		General Chemistry		Remarks
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day			<input type="checkbox"/> BTEX	<input type="checkbox"/> MTBE	<input type="checkbox"/> TPH	<input type="checkbox"/> Gas	<input type="checkbox"/> Other	<input type="checkbox"/> pH	
V Burns		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day		5	<input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> BTEX	<input type="checkbox"/> MTBE	<input type="checkbox"/> TPH	<input type="checkbox"/> Gas	<input type="checkbox"/> Other	
Global ID: T0609700601		<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day			<input type="checkbox"/> 5 Organics (MTBE, TPA, ETRA, DPE, TAINES)	<input type="checkbox"/> Lead	<input type="checkbox"/> Scavengers (LA, PCA & EOB)	<input type="checkbox"/> PAH	<input type="checkbox"/> 8270C	<input type="checkbox"/> PAH	<input type="checkbox"/> 8270C
Order ID: 44731		<input type="checkbox"/> 4 Day	<input checked="" type="checkbox"/> 5 Day			<input type="checkbox"/> TPH Extractable	<input type="checkbox"/> Diesel	<input type="checkbox"/> Motor Oil	<input type="checkbox"/> PCBs	<input type="checkbox"/> 8082	<input type="checkbox"/> Methanol	<input type="checkbox"/> 8015M
Client ID / Field Point	Lab. No.	Date	Time									
2050	001	8-5-05	1015									

Relinquished by: Victor Burns	Received by: Sample Fritz	Date: 8-5-05	Time: 1015	<b>Special Instructions or Comments</b> V email EDF TO: jacy@eri-us.com <input type="checkbox"/> EDD Report <input checked="" type="checkbox"/> EDF Report <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17
Relinquished by: Victor Burns	Received by:	Date: 8-8-05	Time: 900	
Relinquished by:	Received by:	Date: 8-8-05	Time: 1130	